

Nanocyl PLASTICYL™ PC1501 Polycarbonate - Carbon Nanotube Masterbatch

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate, Conductive

Material Notes:

PLASTICYL™ is a family of Multi-Wall Carbon Nanotube (MWNT) thermoplastic concentrates for applications requiring superior electrical conductivity and electrostatic discharge (ESD) properties. PLASTICYL™ PC1501 is a conductive masterbatch based on polycarbonate. Because of its low viscosity and high flow formulation, PLASTICYL™ PC1501 is ideal for standard injection molding and extrusion processes. Key Applications: E&E, automotive and packaging industries HDD (hard disk drive) internal components HDD and IC handling trays Benefits: Excellent electrical conductivity at low loading Excellent surface cleanliness Retention of key mechanical properties Ease of processing

Order this product through the following link:

http://www.lookpolymers.com/polymer_Nanocyl-PLASTICYL-PC1501-Polycarbonate-Carbon-Nanotube-Masterbatch.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.175 g/cc	1.175 g/cc	ISO 1183
Filler Content	14 - 16 %	14 - 16 %	Carbon Nanotube Loading
High Load Melt Index	<= 5.6 g/10 min @Load 20.0 kg, Temperature 300 °C	<= 5.6 g/10 min @Load 44.1 lb, Temperature 572 °F	4 mm; Non-standard Test

Processing Properties	Metric	English	Comments
Processing Temperature	300 °C	572 °F	Material Temperature
Hold Pressure	45.0 MPa	6530 psi	
Back Pressure	4.00 MPa	580 psi	

Descriptive Properties	Value	Comments
Processing: Holding Time	8 s	
Processing: Injection Speed	30 cm ³ /s	
Processing: Plasticizing Speed	0.4 m/s	

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